

SECRETNPIC/TSSG/DED-1679-69
20 June 1969

MEMORANDUM FOR: Development & Engineering Division

SUBJECT : Division Project Assignments

ENCLOSURE : Project Assignment Sheets

1. This memorandum provides a listing of individual, divisional work assignments. These assignments are listed in terms of projects which are currently existent and under contract and project assignments contained in DED's new FY-70 budget. Individual Branch chiefs have been provided with packages containing a listing and description of DED's new R&D categories subdivided into R&D work areas and individual projects, along with individual narrative descriptions depicting each individual project in general terms. These projects are now your individual and Branch responsibilities. If you are currently monitoring an existing project which does not occur on this listing, you should immediately notify your Branch Chief. Branch Chiefs are currently in the process of developing time schedules for the programing and implementation of the FY-70 budget.

2. Our FY-70 program is designed to be flexible. Each project needs to be studied, validated and justified, and each project will have to compete with other Division projects for the available FY-70 funding; i.e., there are more projects than there are available funds. How well the individual projects fair is, to a great extent, dependent upon the individual efforts of the project officers involved.

3. In addition, we are vitally interested in building up a backlog of projects which can be substituted in the case individual projects become untenable due to (a) political considerations, (b) cancellation of acquisition systems, or (c) other unanticipated changes. With this in mind, any additional projects for which you feel there is a valid requirement should be forwarded to your Branch Chief in the form of a brief memorandum for the record stating a logical title and containing a brief narrative description which explains the problem to be solved, the proposed method of solution, the technical risk involved and a ball-park estimate of anticipated cost.


Chief

Development & Engineering Division

Distribution

All Project Officers

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Declass Review by

NMA/DOB

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FY-70 R&D BUDGET

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PROJECT AREAS BY CATEGORY

- I. IMAGERY INTERPRETATION PROCESS RESEARCH
- II. IMAGERY ANALYSIS AND MANIPULATION
- III. INFORMATION TECHNOLOGY
- IV. REPRODUCTION TECHNIQUES & EQUIPMENT
- V. IMAGERY INTERPRETATION INSTRUMENTS & TECHNIQUES
- VI. MEASUREMENT TECHNIQUES & EQUIPMENT
- VII. TEST & EVALUATION EQUIPMENT & TECHNIQUES
- VIII. REAL TIME EXPLOITATION
- IX. OTHER

20 June 1969

FY-70 R&D BUDGET

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PROJECT AREAS BY CATEGORY

I. IMAGERY INTERPRETATION PROCESS RESEARCH:

1. Color Evaluation
2. Ground Resolution Studies

II. IMAGERY ANALYSIS AND MANIPULATION:

1. Image Processing Study
2. Photo Optical System Evaluation
3. Information Transfer Analysis
4. Image Restoration

III. INFORMATION TECHNOLOGY:

1. Chip Systems Technology
2. Automated Reporting
3. Automated Graphics
4. Collateral Information Correlation
5. Information Transmission Systems

IV. REPRODUCTION TECHNIQUES & EQUIPMENT:

1. Photo Materials Research
2. Dry Silver Reproduction Equipment
3. Specialized Printers & Processors

V. IMAGERY INTERPRETATION INSTRUMENTS & TECHNIQUES:

1. Automatic Target Recognition
2. Display System Research & Development
3. Specialized Film Viewers
4. P.I. Work Stations
5. Component Development
6. Advanced Light Table Development

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PROJECT AREAS BY CATEGORY

VI. MENSURATION TECHNIQUES & EQUIPMENT:

1. Study of Measurement Process
2. Mensuration Equipment (Follow on)
3. Modifications to Mensuration Equipment

VII. TEST & EVALUATION EQUIPMENT & TECHNIQUES:

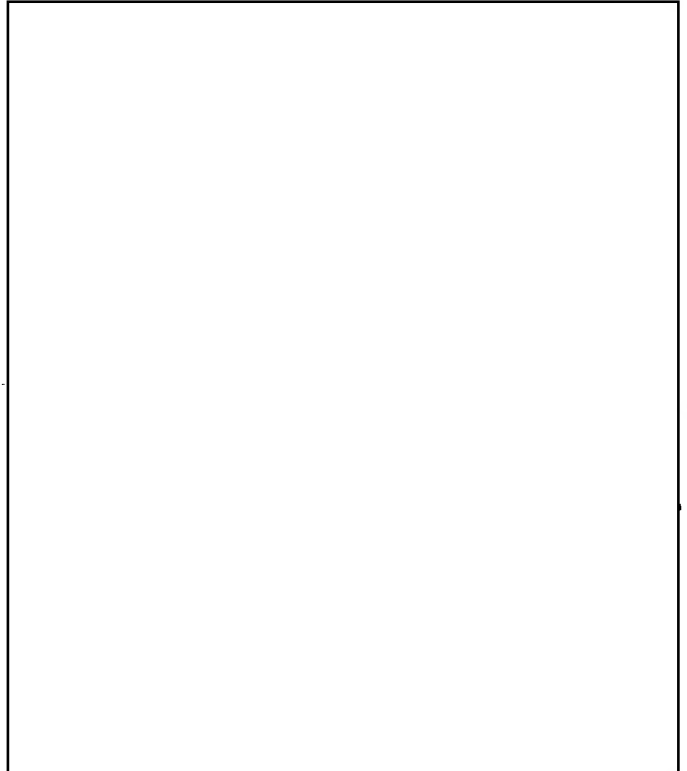
1. Specialized Calibration Equipment
2. Sensitometric Instrumentation
3. Optical Performance Analysis

VIII. REAL TIME EXPLOITATION:

1. Real Time Exploitation Systems Research

IX. SYSTEMS INTEGRATION SUPPORT:

1. Systems Integration Study



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[redacted] in-house activities)

1. TICOP (old)
2. Visual Acuity Study (old)
3. PI Process Study (test development) (old)
4. Chip Study Work (old)

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5. [redacted] P.S. Contracts (old)
6. General Human Factors Research (old)

7. Color Study Work (new)
8. Unconventional Imagery Evaluation (new)
9. Image Quality Determinants (new)

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[redacted]

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1. HFR-Line Scan & GOB Projects + [redacted] T&M contract (old)
2. Member, Image Quality Study Group (NPIC) (old)
3. Par 251 (Ring Smear) (new)
4. Image Analysis Support (new)
5. Photo Science Support (new)
6. MTF/OTF (new)
7. Digital Image Restoration (General) (new)
8. Image Processing Rationale Study (new)
9. NPIC representative to observe Westover dupe study contract [redacted]
& O-N dual gamma contract, Info/Tech (new)

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SYSTEMS DEVELOPMENT BRANCH

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1. Fabrication of High Precision Stereo Comparator - (old)
2. Support of High Precision Stereo Comparator Program - Intergraphics (old)

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1. Chip System Implementation Phase I (old)
2. AL-14 Projects (old)
3. Briefing Print Enlarger (old)
4. Twin-Stage PI Comparator (old)
5. Silver Recovery (old)
6. Chip System Implementation Phase II (new)
7. Mensuration Graphics Plotter (new)
8. Scan & Search PI Station Phase II (new)

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1. Filar Eyepiece (old)
2. Digitized Measuring Light Table (old)
3. Electronic Support T&M (old)
4. Advanced 918 Light Table (old)
5. Micro-D Modifications - (old)
6. Micro-D Modifications - (old)
7. Automated Film Loading and Threading Study (new)
8. New Measuring System for (new)
9. Dual Viewing Comparator (new)

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1. Dry Silver Materials and Equipment Development - FY-69 (old)
2. Step and Repeat Printer Processor - (old)
(to be closed out and GFE to the above project) (close out soon)
3. Three High Capacity Processors - (for the Air Force) (close out soon) (old)
4. Dry Silver Materials Research FY-70 (new)
5. Modification of Diazo Printer to Material (new)
6. Compact, Hi-Speed Film & Paper Processor (new)
7. Enlarger/Reader Printer (new)
8. Calibration Device for Precise Instruments (new)

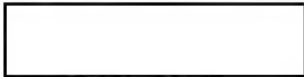
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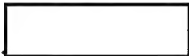
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1. Dual Viewing Microstereoscopes (Production Models) (old)
2. Chip Comparator Modification (old)
3. Digitized Fiber Optic Viewer Alignment and Evaluation (old)
4. Split Format 1540 Light Tables (old)
Production models to follow modifications
5. UV Rear Projection Viewer-Feasibility of Breadboard (old) 25X1
6. Improved Stage Illumination for  High Power Stereo Viewer (in-house) (old)
7. Binocular Tube Magnifier (old)
8. Advanced Rhomboids (old)
9. Extended UV Light Source (new)
10. Low Power Optics for the Zoom 240 (new)
11. Low Power Optics for the Wide-Field Stereoviewer (new)

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1. Simulated Imagery Program -  (old)
2. Contractor Field Work in Support of the In-House Precise Measurement Study (old)
3. Basic Research in Precise Measurement (new)

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SYSTEMS RESEARCH BRANCH

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1. Imagery Interpretation Research Program (old)
 2. Improved Screen Material (old)
 3. In-House Light Table Concept Design (old)
 4. Viewing System Study (new)

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1. Automatic Stereo Scanner (old)
 2. Automatic Stereo Scanner Evaluation (not active) (old)
 3. Image Comparison Microstereoscope (old)
 4. Color Evaluation Study (new)
 5. Automatic Stereogram Printer (new)

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1. Automatic Target Indexing Device (cloud screening) (old)
 2. ATR-Electro-Optical Signal Analysis (new)
 3. Negative to Positive Film Viewer Breadboard (new)
 4. Rapid Display Size Type Setter (new)

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1. WF HPASV (old)
 2. Infrared Imagery Evaluation Program (old)
 3. Scan & Search PI Station Phase I (old)
 4. Real Time Exploitation Systems Study (new)
 5. Real Time Display Research (new)

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1. R&D News Notes (no contract) (old)
 2. Automated Graphics (old)
 3. Automated Reporting System (new)
 4. Automated Print Ordering System Study (new)
 5. Facsimile Transmission System (new)
 6. Laser Projection Feasibility Study (new)
 7. Gas Plasma Display Feasibility Study (new)

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[REDACTED]

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1. Optical Services [REDACTED] (old)
2. Ground Order-of-Battle Phase II (new)
3. Naval Order-of-Battle (new)
4. Photint/Elint Correlation (new)
5. Investigate Proper PI Chair for use with Direct Viewing Instruments (new)

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[REDACTED] (co-op)